

**§ 74.602 Frequency assignment.**

(a) The following frequencies are available for assignment to television pickup, television STL, television relay and television translator relay stations. The band segments 17,700–18,580 and 19,260–19,700 MHz are available for broadcast auxiliary stations as

described in paragraph (g) of this section. The band segment 6425–6525 MHz is available for broadcast auxiliary stations as described in paragraph (i) of this section. Broadcast network-entities may also use the 1990–2110, 6425–6525 and 6875–7125 MHz bands for mobile television pickup only.

Band A MHz	Band B MHz	Band D <sup>1</sup> GHz			
		Group A channels		Group B channels	
		Designation	Channel boundaries	Designation	Channel boundaries
1990–2008 .....	.....	A01 .....	12.700–12.725	B01 .....	12.7125–12.7375
2008–2025 .....	.....	A02 .....	12.725–12.750	B02 .....	12.7375–12.7625
2025–2042 .....	.....	A03 .....	12.750–12.775	B03 .....	12.7625–12.7875
2042–2059 .....	.....	A04 .....	12.775–12.800	B04 .....	12.7875–12.8125
2059–2076 .....	6875–6900 .....	A05 .....	12.800–12.825	B05 .....	12.8125–12.8375
2076–2093 .....	6900–6925 .....	A06 .....	12.825–12.850	B06 .....	12.8375–12.8625
2093–2110 .....	6925–6950 .....	A07 .....	12.850–12.875	B07 .....	12.8625–12.8875
2450–2467 .....	6950–6975 .....	A08 .....	12.875–12.900	B08 .....	12.8875–12.9125
2467–2483.5 .....	6975–7000 .....	A09 .....	12.900–12.925	B09 .....	12.9125–12.9375
	7000–7025 .....	A10 .....	12.925–12.950	B10 .....	12.9375–12.9625
	7025–7050 .....	A11 .....	12.950–12.975	B11 .....	12.9625–12.9875
	7050–7075 .....	A12 .....	12.975–13.000	B12 .....	12.9875–13.0125
	7075–7100 .....	A13 .....	13.000–13.025	B13 .....	13.0125–13.0375
	7100–7125 .....	A14 .....	13.025–13.050	B14 .....	13.0375–13.0625
		A15 .....	13.050–13.075	B15 .....	13.0625–13.0875
		A16 .....	13.075–13.100	B16 .....	13.0875–13.1125
		A17 .....	13.100–13.125	B17 .....	13.1125–13.1375
		A18 .....	13.125–13.150	B18 <sup>2</sup> .....	13.1375–13.1625
		A19 <sup>2</sup> .....	13.150–13.175	B19 <sup>2</sup> .....	13.1625–13.1875
		A20 <sup>2</sup> .....	13.175–13.200	B20 <sup>2</sup> .....	13.1875–13.2125
		A21 .....	13.200–13.225	B21 .....	13.2125–13.2375
		A22 .....	13.225–13.250		

<sup>1</sup>For fixed stations using Band D Channels, applicants are encouraged to use alternate A and B channels such that adjacent R.F. carriers are spaced 12.5 MHz. As example, a fixed station, relaying several channels, would use A01, B01, A02, B02, A03, etc.

<sup>2</sup>The band 13.15–13.20 GHz is reserved for television pickup and CARS pickup stations inside a 50 km radius of the 100 television markets delineated in § 76.51 of this chapter. Outside a 50 km radius of the 100 television markets delineated in § 76.51 of this chapter, television pickup stations, CARS stations and NGSO FSS gateway earth stations shall operate on a primary co-equal basis. The band 13.20–13.2125 GHz is reserved for television pickup stations on a primary basis and CARS pickup stations on a secondary basis inside a 50 km radius of the 100 television markets delineated in § 76.51 of this chapter. Outside a 50 km radius of the 100 markets delineated in § 76.51 of this chapter, television pickup stations and NGSO FSS gateway earth stations shall operate on a co-primary basis, CARS stations shall operate on a secondary basis. Fixed television auxiliary stations licensed pursuant to applications accepted for filing before September 1, 1979, may continue operation on channels in the 13.15–13.25 GHz band, subject to periodic license renewals. NGSO FSS gateway uplink transmissions in the 13.15–13.2125 GHz segment shall be limited to a maximum EIRP of 3.2 dBW towards 0 degrees on the radio horizon. These provisions shall not apply to GSO FSS operations in the 12.75–13.25 GHz band.

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(1) Frequencies shown above between 2450 and 2500 MHz in Band A are allocated to accommodate the incidental radiations of industrial, scientific, and medical (ISM) equipment, and stations operating therein must accept any interference that may be caused by the operation of such equipment. Frequencies between 2450 and 2500 MHz are also shared with other communication services and exclusive channel assignments will not be made, nor is the channeling shown above necessarily that which will be employed by such other services.

(2) [Reserved]

(3)(i) After January 1, 2000, stations may adhere to the channel plan specified in paragraph (a) of this section, or to the following channel plan in Band A:

Channel A01—2008-2023 MHz  
Channel A02—2023-2037.5 MHz  
Channel A03—2037.5-2052 MHz  
Channel A04—2052-2066.5 MHz  
Channel A05—2066.5-2081 MHz  
Channel A06—2081-2095.5 MHz  
Channel A07—2095.5-2110 MHz

(ii) Broadcast Auxiliary Service, Cable Television Remote Pickup Service, and Local Television Transmission Service licensees in Nielsen Designated Market Areas 1-30 will be required to use the Band A channel plan in paragraph (a)(3)(i) of this section after completion of relocation by an Emerging Technologies licensee in accordance with § 74.690. Licensees declining relocation and licensees in Nielsen Designated Market Areas 31 and higher will be required to discontinue use of the 1990-2008 MHz band when informed by a Mobile-Satellite Service licensee that it intends to begin operations in the 1990-2008 MHz band.

(4)(i) When Mobile-Satellite Service licensees begin operations in the 2008-2025 MHz band, stations may adhere to the channel plan specified, but are forbidden to use Channel A01, or may adhere to the following channel plan in Band A:

Channel A01—2025-2037.4 MHz  
Channel A02—2037.4-2049.5 MHz  
Channel A03—2049.5-2061.6 MHz  
Channel A04—2061.6-2073.7 MHz  
Channel A05—2073.7-2085.8 MHz  
Channel A06—2085.8-2097.9 MHz  
Channel A07—2097.9-2110 MHz

(ii) Broadcast Auxiliary Service, Cable Television Remote Pickup Service, and Local Television Transmission Service licensees in Nielsen Designated Market Areas 1-30 will be required to use the Band A channel plan in paragraph (a)(4)(i) of this section after completion of relocation by an Emerging Technologies licensee in accordance with § 74.690. Licensees declining relocation and licensees in Nielsen Designated Market Areas 31 and higher will be required to discontinue use of the 2008-2025 MHz band when informed by a Mobile-Satellite Service licensee that it intends to begin operations in the 2008-2025 MHz band.

(b) Subject to the conditions of paragraph (a) of this section, frequency assignments will normally be made as requested, provided that the frequency selection provisions of § 74.604 have been followed and that the frequency requested will cause no interference to existing users in the area. The Commission reserves the right to assign frequencies other than those requested if, in its opinion, such action is warranted.

(c) Fixed link stations will be authorized to operate on one channel only.

(d) Cable Television Relay Service stations may be assigned channels in Band D between 12,700 and 13,200 MHz subject to the condition that no harmful interference is caused to TV STL and TV relay stations authorized at the time of such grants. Similarly, new TV STL and TV relay stations must not cause harmful interference to cable television relay stations authorized at the time of such grants. The use of channels between 12,700 and 13,200 MHz by TV pickup stations is subject to the condition that no harmful interference is caused to Cable Television Relay Service stations, TV STL and TV relay stations, except as provided for in § 74.602(a) Note 2. Band D channels are also shared with certain Private Operational Fixed Stations, see § 74.638.

(e) Communication common carriers in the Local Television Transmission Service (Part 101) may be assigned frequencies available to television broadcast station licensees and broadcast network entities for the purpose of providing service to television broadcast

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stations and broadcast network entities, respectively.

(f) TV auxiliary stations licensed to low power TV stations and translator relay stations will be assigned on a secondary basis, *i.e.*, subject to the condition that no harmful interference is caused to other TV auxiliary stations assigned to TV broadcast stations, or to cable television relay service stations (CARS) operating between 12,700 and 13,200 MHz. Auxiliary stations licensed to low power TV stations and translator relay stations must accept any interference caused by stations having primary use of TV auxiliary frequencies.

(g) The following frequencies are available for assignment to television STL, television relay stations and television translator relay stations. Stations operating on frequencies in the sub-bands 18.3–18.58 GHz and 19.26–19.3 GHz that were licensed or had applications pending before the Commission as of September 18, 1998 may continue those operations on a shared co-primary basis with other services under parts 21, 25, 78, and 101 of this chapter. Such stations, however, are subject to relocation by licensees in the fixed-satellite service. Such relocation is subject to the provisions of §§101.85 through 101.97 of this chapter. No new applications for new licenses will be accepted in the 19.26–19.3 GHz band after June 8, 2000, and no new applications for new licenses will be accepted in the 18.3–18.58 GHz band after November 19, 2002. The provisions of §74.604 do not apply to the use of these frequencies. Licensees may use either a two-way link or one or both frequencies of a frequency pair for a one-way link and shall coordinate proposed operations pursuant to procedures required in §101.103(d) of this chapter.

(1) 2 MHz maximum authorized bandwidth channel:

Transmit (receive) (MHz)	Receive (transmit) (MHz)
18141.0 .....	n/a

(2) 6 MHz maximum authorized bandwidth channels:

Transmit (receive) (MHz)	Receive (transmit) (MHz)
216 MHz Separation	
18145.0 .....	n/a
18151.0 .....	18367.0
18157.0 .....	18373.0
18163.0 .....	18379.0
18169.0 .....	18385.0
18175.0 .....	18391.0
18181.0 .....	18397.0
18187.0 .....	18403.0
18193.0 .....	18409.0
18199.0 .....	18415.0
18205.0 .....	18421.0
18211.0 .....	18427.0
18217.0 .....	18433.0
18223.0 .....	18439.0
18229.0 .....	18445.0
18235.0 .....	18451.0
18241.0 .....	18457.0
18247.0 .....	18463.0
18253.0 .....	18469.0
18259.0 .....	18475.0
18265.0 .....	18481.0
18271.0 .....	18487.0
18277.0 .....	18493.0
18283.0 .....	18499.0
18289.0 .....	18505.0
18295.0 .....	18511.0
18301.0 .....	18517.0
18307.0 .....	18523.0
18313.0 .....	18529.0
18319.0 .....	18535.0
18325.0 .....	18541.0
18331.0 .....	18547.0
18337.0 .....	18553.0
18343.0 .....	18559.0
18349.0 .....	18565.0
18355.0 .....	18571.0
18361.0 .....	18577.0

(3) 10 MHz maximum authorized bandwidth channels:

Transmit (receive) (MHz)	Receive (transmit) (MHz)
1560 MHz Separation	
17705.0 .....	19265.0
17715.0 .....	19275.0
17725.0 .....	19285.0
17735.0 .....	19295.0
17745.0 .....	19305.0
17755.0 .....	19315.0
17765.0 .....	19325.0
17775.0 .....	19335.0
17785.0 .....	19345.0
17795.0 .....	19355.0
17805.0 .....	19365.0
17815.0 .....	19375.0
17825.0 .....	19385.0
17835.0 .....	19395.0
17845.0 .....	19405.0
17855.0 .....	19415.0
17865.0 .....	19425.0
17875.0 .....	19435.0
17885.0 .....	19445.0
17895.0 .....	19455.0
17905.0 .....	19465.0
17915.0 .....	19475.0
17925.0 .....	19485.0

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Transmit (receive) (MHz)	Receive (transmit) (MHz)
17935.0 .....	19495.0
17945.0 .....	19505.0
17955.0 .....	19515.0
17965.0 .....	19525.0
17975.0 .....	19535.0
17985.0 .....	19545.0
17995.0 .....	19555.0
18005.0 .....	19565.0
18015.0 .....	19575.0
18025.0 .....	19585.0
18035.0 .....	19595.0
18045.0 .....	19605.0
18055.0 .....	19615.0
18065.0 .....	19625.0
18075.0 .....	19635.0
18085.0 .....	19645.0
18095.0 .....	19655.0
18105.0 .....	19665.0
18115.0 .....	19675.0
18125.0 .....	19685.0
18135.0 .....	19695.0

(4) 20 MHz maximum authorized bandwidth channels:

Transmit (receive) (MHz)	Receive (transmit) (MHz)
1560 MHz Separation	
17710.0 .....	19270.0
17730.0 .....	19290.0
17750.0 .....	19310.0
17770.0 .....	19330.0
17790.0 .....	19350.0
17810.0 .....	19370.0
17830.0 .....	19390.0
17850.0 .....	19410.0
17870.0 .....	19430.0
17890.0 .....	19450.0
17910.0 .....	19470.0
17930.0 .....	19490.0
17950.0 .....	19510.0
17970.0 .....	19530.0
17990.0 .....	19550.0
18010.0 .....	19570.0
18030.0 .....	19590.0
18050.0 .....	19610.0
18070.0 .....	19630.0
18090.0 .....	19650.0
18110.0 .....	19670.0
18130.0 .....	19690.0

(5) 40 MHz maximum authorized bandwidth channels:

Transmit (receive) (MHz)	Receive (transmit) (MHz)
1560 MHz Separation	
17720.0 .....	19280.0
17760.0 .....	19320.0
17800.0 .....	19360.0
17840.0 .....	19400.0
17880.0 .....	19440.0
17920.0 .....	19480.0
17960.0 .....	19520.0
18000.0 .....	19560.0
18040.0 .....	19600.0

Transmit (receive) (MHz)	Receive (transmit) (MHz)
18080.0 .....	19640.0
18120.0 .....	19680.0

(6) 80 MHz maximum authorized bandwidth channels:

Transmit (receive) (MHz)	Receive (transmit) (MHz)
1560 MHz Separation	
17740.0 .....	19300.0
17820.0 .....	19380.0
17900.0 .....	19460.0
17980.0 .....	19540.0
18060.0 .....	19620.0

(h) TV STL, TV relay stations, and TV translator relay stations may be authorized to operate fixed point-to-point service on the UHF TV channels 14-69 on a secondary basis and subject to the provisions of subpart G of this part:

(1) Applications for authorization in accordance with this paragraph must comply with the following technical limits or be accompanied by an engineering analysis demonstrating why these limits must be exceeded:

(i) Maximum EIRP is limited to 35 dBW;

(ii) Transmitting antenna beamwidth is limited to 25 degrees (measured at the 3 dB points); and

(iii) Vertical polarization is used.

(2) These stations must not interfere with and must accept interference from current and future full-power UHF-TV stations, LPTV stations, and translator stations. They will also be secondary to land mobile stations in areas where land mobile sharing is currently permitted.

(3) TV STL and TV relay stations licensed for operation on UHF TV channels 52-69 based on applications filed before April 16, 2003, may continue to operate under the terms of their current authorizations until the end of transition to digital television in their market (DTV Transition), as set forth in §§73.622 through 73.625 of this chapter. Applications for TV STL and TV relay stations operating on UHF TV channels 52-69 will not be accepted for filing on or after April 16, 2003.

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(4) TV translator relay stations licensed for operation on UHF TV channels 52–59 based on applications filed before the end of DTV transition may continue to operate under the terms of their current authorizations indefinitely. TV translator relay stations licensed for operation on UHF TV channels 60–69 based on applications filed before the end of DTV transition may continue to operate under the terms of their current authorizations until the end of DTV Transition. Applications for TV translator relay stations operating on UHF TV channels 52–69 will not be accepted for filing on or after the end of DTV Transition.

(i) *6425 to 6525 MHz—Mobile Only.* Paired and un-paired operations permitted. Use of this spectrum for direct delivery of video programs to the general public or multi-channel cable distribution is not permitted. This band is co-equally shared with mobile stations licensed pursuant to parts 78 and 101 of this chapter. The following channel plans apply.

(1) 1 MHz maximum authorized bandwidth channels.

Transmit (or receive MHz)	Receive (or transmit) (MHz)
6425.5	6475.5
6450.5	6500.5

(2) 8 MHz maximum authorized bandwidth channels.

Transmit (or receive MHz)	Receive (or transmit) (MHz)
6430.0	6480.0
6438.0	6488.0
6446.0	6596.0
6455.0	6505.0
6463.0	6513.0
6471.0	6521.0

(3) 25 MHz maximum authorized bandwidth channels.

Transmit (or receive MHz)	Receive (or transmit) (MHz)
6437.5	6487.5
6462.5	6512.5

(Secs. 4, 5, 303, 48 Stat., as amended, 1066, 1068, 1082; 47 U.S.C. 154, 155, 303)

[28 FR 13718, Dec. 14, 1963]

EDITORIAL NOTE: For FEDERAL REGISTER citations affecting § 74.602, see the List of CFR Sections Affected, which appears in the Finding Aids section of the printed volume and on GPO Access.

## § 74.603 Sound channels.

(a) The frequencies listed in § 74.602(a) may be used for the simultaneous transmission of the picture and sound portions of TV broadcast programs and for cue and order circuits, either by means of multiplexing or by the use of a separate transmitter within the same channel. When multiplexing of a TV STL station is contemplated, consideration should be given to the requirements of § 73.687 of this Chapter regarding the overall system performance requirements. Applications for new TV pickup, TV STL, TV relay and TV translator relay stations shall clearly indicate the nature of any mutliplexing proposed. Multiplexing equipment may be installed on licensed equipment without authority of the FCC, provided the installation of such apparatus on a TV STL station shall not result in degradation of the overall system performance of the TV broadcast station below that permitted by § 73.687 of this chapter.

(b) [Reserved]

(c) Aural STL or intercity relay stations licensed as of July 10, 1970, to operate in the frequency band 942–947 MHz, may continue to so operate pending a decision as to their disposition through a future rule making proceeding.

(d) Remote pickup broadcast stations may be used in conjunction with television pickup stations for the transmission of the aural portion of television programs or events that occur outside a television studio and for the transmission of cues, orders, and other related communications necessary thereto. The rules governing remote pickup broadcast stations are contained in Subpart D of this part.

[28 FR 13718, Dec. 14, 1963, as amended at 47 FR 55936, Dec. 14, 1982; 48 FR 24385, June 1, 1983; 68 FR 12769, Mar. 17, 2003]

## § 74.604 Interference avoidance.

(a) [Reserved]

(b) Where two or more licensees are assigned a common channel for TV pickup, TV STL, or TV relay purposes in the same area and simultaneous operation is contemplated, they shall take such steps as may be necessary to avoid mutual interference, including